high performance projectors

projectiondesign is located in Fredrikstad, Norway, a center in the projection industry since the mid 80's. We are dedicated to designing, manufacturing and marketing a wide range of high performance projectors for various challenging applications. The entire range of products is specially conceived to offer a better price to performance ratio than any competing offering in our target markets. The dedicated staffs of experienced scientists and engineers have life long experience in complete electronic, optical, mechanical and system design of high performance projectors. The approach to integrated product design and manufacture in house assures the best attention to detail and quality. All products are designed in close cooperation with our customers in order to assure the best functionality according to the actual requirements.

philosophy

projectiondesign designs and manufactures high performance projectors for professional, business and consumer applications. Our products are used in high profile installations where performance and reliability are key aspects of the presentation, and we understand the impact a high performance display solution makes in business decisions and demanding applications. In order to meet our clients' requirements, projectiondesign always seeks to offer the best possible performance for any single installation by providing the best possible fit for any one product. All projectiondesign projectors are built to order. By doing so, we guarantee that the latest software and hardware will be in any one product shipped, reducing the risk of receiving a projector that has been sitting on a shelf for months, where new projectors in the same model range ultimately have had upgrades to its performance in the mean time.

achievements

Since projectiondesign was founded in 2001, we have achieved a tremendeous amount of industry firsts.

Numerous industry milestones that distinguish projectiondesign's award winning, innovative technology include the introduction of the world's first single-chip SXGA DLP projector in 2002, the first commercially available 1080p DLP projector in 2006, the first WUXGA resolution DLP projector, and the first portable and high-resolution active 3D stereoscopic projector in 2008. In 2009, projectiondesign introduced its first 3-chip projector and debuted LED illumination. 2010 signified the company's first image warp and blend product with the Multi Image Processors, as well as the world premiere of the WQXGA resolution (2,560 x 1,600) projector, and revolutionary patented Remote Light Source technology. The entire professional product range is warranted for 24/7 usage.

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3D Stereoscopic Range

DLP 3D REALCOLOR

3D stereoscopic projectors

projectiondesign offers a broad range of professional projectors for 3D stereoscopic visualisation. 3D stereoscopic images have the power to add value to the decision making process and enhance the overall situational awareness. Stereoscopic projection is used in many industries to wipe out the borders between illusion and reality, to enhance understanding of graphically presented data, and to make the best possible decisions at an early stage before a project enters implementation stage.

3D stereoscopic imaging is used in many industries, such as oil and gas exploration, design and manufacturing, film and entertainment, medical imaging, and many others to improve on profitability by shortening decision processes, and increasing efficiencies within projects.

Technologies for 3D stereoscopic imaging

There are two ways of displaying 3D stereoscopic images from a projector. Common to both is that they require the use of glasses.

Active 3D stereoscopy uses glasses with built in electronic components, and alternates the left eye / right eye information by showing them sequentially at a rate of 60 images per second per eye or more. LCD shutter glasses are synchronized with the projected image via either an external IR transmitter interface, or by using DLP Link® technology, where synchronisation information is embedded in the projected image. Active 3D stereo is considered by many as the premier technology.

Passive stereoscopy uses lower cost glasses without electronic components, and presents images to each eye by altering the appearance of the left eye / right eye with filters of various kinds. Images are presented to each eye continuously, but are often reduced in visual quality, either by separating colours, or by introducing other artefacts. Passive 3D stereo is suitable for larger audiences, where cost of glasses is a major concern. Passive 3D stereo is often realised using two projectors, one for each eye's information.

projectiondesign solutions

Active stereo

Our AS3D projectors uses patented technologies for displaying full Dual Head 3D Stereographic content from digital or analogue computer sources – available from a wide range of standard systems. It features double the bandwidth of competing projectors in order to display a full 120 frames per second, providing a flicker-free image without colour alterations or viewing angle restrictions seen with some passive 3D stereo technologies. Independent of projection surface, it provides the highest performance imaging. Single lens optics ensures ultra simple setup. Active stereo solutions are widely used in single projector installations, such as planning rooms, portable applications, as well as in multiple projector applications and CAVE® (Computer Aided Visual Environment). The AS3D projectors work just as well with 2D imaging as it does with 3D, as they have no filters or other limiting factors.

Passive stereo

projectiondesign offers a wide range of passive 3D stereo projector solutions, from small and semi-portable, to large, fixed installation types. All our models are specifically designed to work in dedicated pairs, with optical corrections and modifiations to provide the best possible performance. All our models use the INFITEC™ Wavelength Multiplex Imaging technolgy, recognized from technology used in digital cinema applications. All models have built-in filters for increased stability and reliability, at minimum hassle. The F32, F35 and F82 series feature motorized INFITEC™ filters, enabling them to be removed from the image processing at the flick of a switch, providing very flexible projectors that can be used both for 2D and 3D images. projectiondesign projectors can also be used for Linear and Circular polarization systems, where the polarizing filters are mounted externally.

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3D imaging

projectiondesign®
HIGH PERFORMANCE PROJECTORS

3D stereoscopic projectors

model	F22 series (stacking frame example)	F12 series (stacking frame example)	F10 AS3D	F32 series	F35 series	F35 AS3D	F82 series
description							
technology	single chip DLP® technology	single chip DLP® technology	single chip DLP® technology	single chip DLP® technology, dual lamp	single chip DLP® technology, dual lamp	single chip DLP® technology, dual lamp	three chip DLP® technology, dual lamp
concept	small sized installable projector kit for small to medium sized imaging and installations	small sized installable projector kit for small to medium sized imaging and installations	small sized active stereo projector for installation and portable usage	fail safe high resolution professional projector with full lens shift for scientific visulation and simulation	fail safe high resolution professional projector with full lens shift for scientific visulation and simulation	fail safe high resolution active stereo projector with full lens shift for scientific visulation and simulation	high performance projector with ultra high accuracy and outstanding performance
INFITEC™ passive stereo option	yes	yes	–	yes	yes	yes	yes
active stereo 3D	–	–	yes	–	–	yes	–
user activated 2D/3D modes	–	–	–	yes	yes	yes	yes
resolutions options, native	1400 x 1050 / 1920 x 1080 / 1920 x 1200	1400 x 1050 / 1920 x 1080 / 1920 x 1200	1400 x 1050	1400 x 1050 / 1920 x 1080 / 1920 x 1200	2560 x 1600	1920 x 1080 / 1920 x 1200	1400x1050 / 1920 x 1080 / 1920 x 1200
Input resolution, max	1920 x 1200	1920 x 1200	1920 x 1200	1920 x 1200	2560 x 1600	1920 x 1200	1920 x 1200
brightness lm approx (single projector)	1600 / 1400 / 1400	2000 / 1800 / 1800	2000	3100 / 2900 / 2900	7500	7500	10000
contrast ratio	up to 2500 : 1	up to 2500 / 3000 / 4000 : 1	up to 2500 : 1	up to 7500 : 1	up to 8000 : 1	up to 7500 : 1	up to 15000 : 1
custom colour correction	yes	yes	yes	yes	yes	yes	yes
recommended image size	up to 250 cm wide	min 200 cm, up to 300 cm wide	up to 300 cm wide	up to 450 cm wide	up to 450 cm wide	up to 450 cm wide	up to 600 cm wide
colour wheel options	VizSim / Graphics* / High Brightness*	VizSim / Graphics* / High Brightness*	VizSim	VizSim / Graphics* / High Brightness*	VizSim / VizSim Bright / Graphics* / High Brightness*	VizSim / VizSim Bright / Graphics* / High Brightness*	–
optics, lenses, and lamps							
ultra wide angle lens	0.80 : 1 / 0.74 : 1	–	–	0.84 : 1 / 0.79 : 1	0.80 : 1	0.75 : 1	0.74 : 1
wide angle lens	1.0 : 1 / 0.92 : 1	1.03 : 1 / 0.95:1	1.03 : 1	1.25 : 1 / 1.16 : 1	0.80 - 1.2 : 1	0.92 : 1	–
wide angle zoom lens	–	–	–	1.34 - 1.74 : 1 / 1.24 - 1.60 : 1	1.2 - 1.70 : 1	1.12 - 1.58 : 1	1.20 - 1.70 : 1
standard zoom lens	1.73 - 2.39:1 / 1.60 - 2.21 : 1	1.70 - 2.20 : 1 / 1.6 - 2.0	1.70 - 2.20 : 1	1.74 - 2.51 : 1 / 1.60 - 2.32 : 1	1.69 - 2.50 : 1	1.58 - 2.33 : 1	1.70 - 2.55 : 1
short tele zoom lens	2.70 - 4.20 : 1 / 2.5 - 3.90 : 1	–	–	2.56 - 4.10 : 1 / 2.37 - 3.79 : 1	2.50 - 4.60 : 1	2.33 - 4.30 : 1	2.50 - 4.00 : 1
long tele zoom lens	–	–	–	4.10 - 7.10 : 1 / 3.80 - 6.50 : 1	–	–	3.90 - 6.24 : 1
lens operation (for fixed lenses no zoom option)	manual zoom and focus,vertical lens shift	manual zoom and focus	manual zoom and focus	motorized zoom and focus	motorized zoom and focus	motorized zoom and focus	motorized zoom and focus,
lens shift / offset, wide angle lenses For passive, stack sets, lower unit sets limit for maximum image offset	0 to 80% / 0 to 93% / 0 to 83%	109 and 123%	–	vertical and horizontal shift	vertical and horizontal shift	vertical and horizontal shift	vertical and horizontal shift
lamp options	220W UHP™	300W UHP™	220W UHP™	300W UHP™ (2x)	300W UHP™ (2x)	300W UHP™ (2x)	330W UHP™ (2x)
lamp life full power / eco (typical)	2250 / 3000 hrs	2000 / 2500 hrs	2250 / 3000 hrs	2000 / 2500 (5000 in relay mode) hrs	2000 / 2500 (5000 in relay mode) hrs	2000 / 2500 (5000 in relay mode) hrs	1700 / 2000 (4000 in relay mode) hrs
inputs and connectors							
computer connectivity	HDMI, DVI-I, VGA	HDMI, DVI-I, 2 x VGA	HDMI, DVI-I, 2 x VGA	HDMI, DVI-I, BNC, VGA	2 x HDMI, 2 x Dual-Link DVI-D	2 x HDMI, 2 x Dual-Link DVI-D	HDMI, DVI-I, BNC, VGA
video connectivity	HDMI 1.3a, component, S-video, composite	HDMI 1.3a, component, S-video, composite	HDMI 1.3a, component, S-video, composite	HDMI 1.3a, component, S-video, composite	HDMI 1.3a	HDMI 1.3a	HDMI 1.3a, component,S-video, composite
control	TCP/IP , RS232, 1x 12V trigger, RC, USB-A / B port, Status LED	TCP/IP , RS232, 1x 12V trigger, RC, USB-A / B port, Status LED	TCP/IP , RS232, 2x 12V trigger, RC, USB-A / B port, Status LED	TCP/IP , RS232, 2x 12V trigger, RC, USB-A / B port, Status LED	TCP/IP , RS232, 2x 12V trigger, RC, USB-A / B port, Status LED	TCP/IP , RS232, 2x 12V trigger, RC, USB-A / B port, Status LED	TCP/IP , RS232, 2x 12V trigger, RC, USB-A / B port, Status LED
stereo sync	–	–	IR emitter output; 3-pin DIN, BNC	–	–	yes	–
XPort™ expandable I/O	–	–	–	yes	–	–	yes
ProNet compatible	yes	yes	yes	yes	yes	yes	yes
general							
weight	about 3.0 kg	about 3.5 kg	about 3.5 kg	about 12,6 kg	about 12,6 kg	about 12,6 kg	about 26 kg
dimensions in mm (d w h)	234 x 278 x 94	278 x 300 x 104	278 x 278 x 104	375 x 507 x 218		376 x 510 x 223	603 x 505 x 250
standard limited warranty	3 years	3 years	3 years	3 years	3 years	3 years	3 years
optional extended warranty (conditions apply)	up to 5 years	up to 5 years	up to 5 years	up to 5 years		up to 5 years	up to 5 years
lamp warranty	500 hours or 90 days (whichever comes first)	500 hours or 90 days (whichever comes first)	500 hours or 90 days (whichever comes first)	500 hours or 90 days (whichever comes first)	500 hours or 90 days (whichever comes first)	500 hours or 90 days (whichever comes first)	500 hours or 90 days (whichever comes first)
availability	now	now	now	now	now	now	now

*Not recommended if you need perfectly colour balaced images

projectiondesign®
HIGH PERFORMANCE PROJECTORS

technical specifications